

UNLIMITED

INSTRUCTION MANUAL

ENGLISH



WARNING

*This model is not a toy. Adult supervision is required.
Read the instructions before use.
Never touch the moving parts.*

Modifications, errors and printing errors reserved.



READ THIS FIRST

Be sure to read right through the instructions covering assembly and operation of your model before you attempt to operate it for the first time. You alone are responsible for the safe operation of your radio-controlled model. Young people should only be permitted to build and operate these models under the instruction and supervision of an adult who is aware of the hazards involved in this activity.

We have no control over the way you build and operate your RC model, and for this reason we are obliged to deny all liability for accidents. All we can do is point out the hazards and make sure you are aware of them.

If you need help, please enlist the aid of an experienced modeler, a model club or enrol at a RC model training school. Model shops and the specialized model press are also good sources of information.

Every time you intend to operate your model carefully check that the model itself and everything attached to it (e.g. propeller, gearbox, RC components etc.) is in good condition and undamaged. If you find a fault do not operate the model until you have corrected it.

Check whether your frequency is vacant before you switch on. Radio interference caused by unknown sources can occur at any time without warning. If this should happen, your model will be uncontrollable and completely unpredictable. Never leave your radio control system unguarded, as other people might pick it up and try to use it.

If you are to operate your model safely and avoid problems, it is essential that you are aware of its position throughout each run - so don't let it drive too far away! If you detect a control problem or interference during operation, immediately recall the model to prevent a potential accident.

Always switch on the transmitter first, then the receiving system. Use the reverse sequence when switching off: receiver first, then the transmitter. Check that the controls move in the correct "sense" when you operate the sticks.

If you take reasonable care, RC modelling is a highly creative, instructive, enjoyable and relaxing leisure.

PRECAUTIONS

In order to avoid any accidents or personal injury, be sure to observe the following guidelines.

Whether you run your boat on lakes, rivers or elsewhere, take precautionary measures to avoid accidents. Keep all objects away from the moving or rotating parts of your boat. Do not touch the moving parts!

ALWAYS handle fuel outdoors. Vapors and exhausts can be dangerous.

Some parts of the model generate high temperatures after use. You can get seriously burned when touching them.

Only use gasoline (mixed fuel) to fuel the boat. Don't swallow the fuel and keep it away from your eyes.

To prevent accidents, don't run your model under the following circumstances:

In places where many people gather

When rivers are swollen or the current is strong

When the batteries are weak

When the boat behaves or operates strangely

It is recommended that you disconnect the batteries from the model when not used.

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BOX CONTENT

Every Navicraft© model comes with the following:

- Engine:
The water cooled 26cc gas engine with clutch system allows you to start and adjust the engine without the propeller engaging, for safer setup and operation.
- Prop/ rudder:
The CNC machined aluminium rudder has been specially designed for cornering ability and handling. The efficient metal propeller and adjustable trim tab system allow you to tune your boat for maximum performance on any kind of water.
- Radio box:
The prefinished radio box with laser cut servo tray protects your radio gear from moisture and has easy access for maintenance or charging the batteries. It is completely water sealed.
- RTR Kit:
 - Radio system with a genuine high quality Futaba© radio system.
 - Boat stand, for displaying and/ or storing your Navicraft© model.
 - Tools required for operating your model are all included.
 - Fuel filler bottle (600ml).

REQUIRED FOR OPERATION

- 2-stroke fuel
- 12 AA-size batteries
- Nutlock
- 2mm Allen key

These products are not included in the kit and need to be purchased separately.

TECHNICAL SPECIFICATIONS

Dimensions: 1150(L) x 470(W) x 300(H) mm
Engine Size: 26cc 2-stroke Engine (installed)
Weight: 7.8 kg
Radio: AM (27 MHz) with 2 servos
Hull Material: Fiberglass Composite
Hull Type: Catamaran

RADIO PREPARATION

- Install 4 AA-size batteries in the battery holder in the radio box of the boat. Fig 1
- Install 8 AA-size batteries in the transmitter.
- Centre all trims. (Transmitter)
- Switch the transmitter ON and then the receiver ON.
- Check that the servos move according to your inputs.
- Check that the carburetor open fully.
- Check that the rudder is in neutral position when the rudder stick is in neutral position. Otherwise adjust the rudder position using the set screw. Fig 2



Fig 1

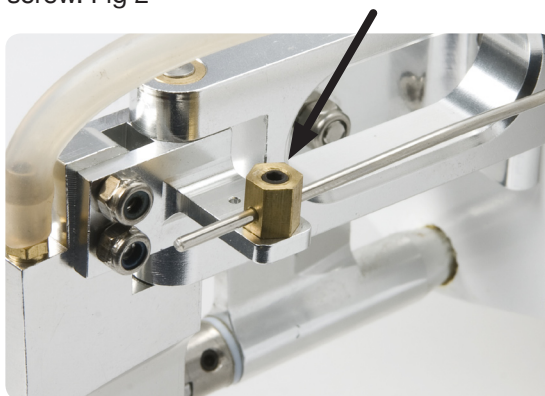
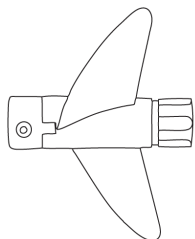


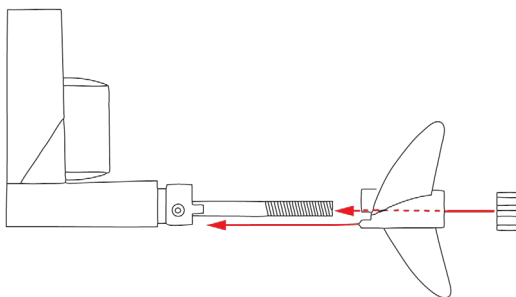
Fig 2

SETUP BEFORE USE

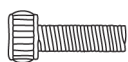
STEP 1: DRIVE SHAFT



Nylon Nut M5 - 5 mm (1)



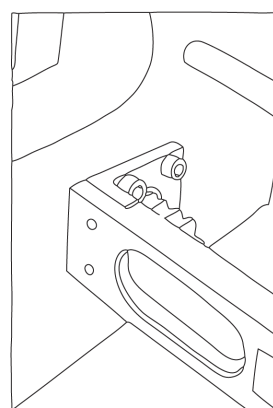
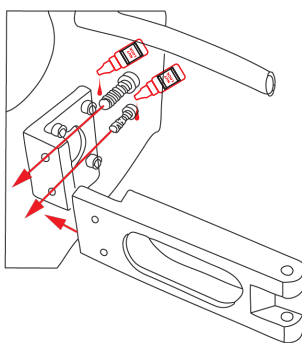
STEP 2: RUDDER



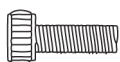
Cap Screw - 4 x 10 mm (2)



Use NutLock on the Cap Screws (indicated with a droplet).



STEP 3: RUDDER



Cap Screw - 4 x 16 mm (1)



Cap Screw - 3 x 16 mm (1)



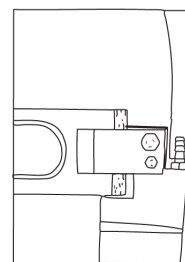
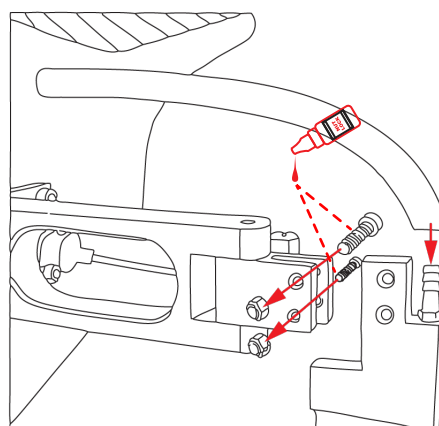
Nylon Nut - 4 mm (1)



Nylon Nut - 3 mm (1)



Use NutLock on the Cap Screws (indicated with a droplet).

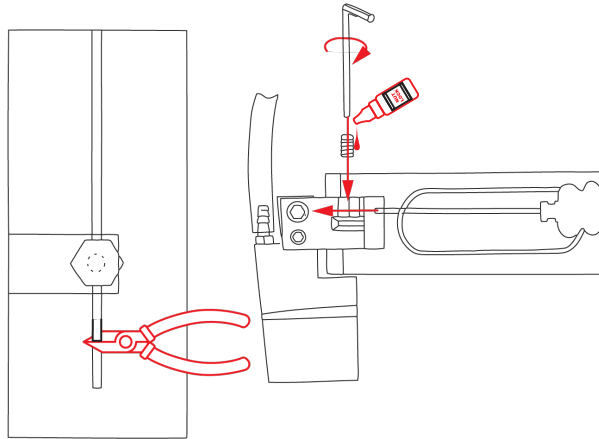


STEP 4: RUDDER

 Set screw 4x16mm

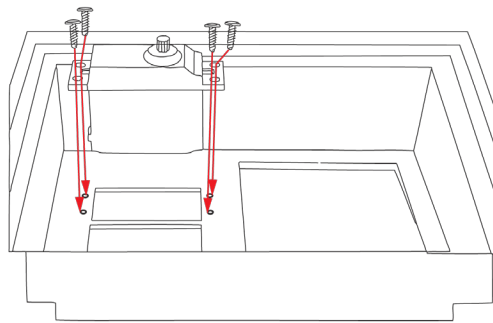


Use NutLock on the Set Screw
(indicated with a droplet).

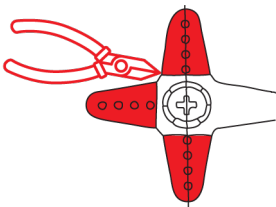


STEP 5: RADIO BOX

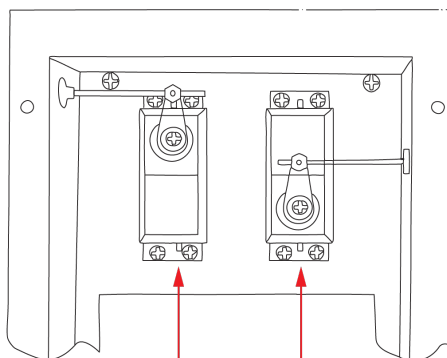
 TP Screw - 3 x 10 mm (4)



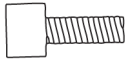
STEP 6: RADIO BOX



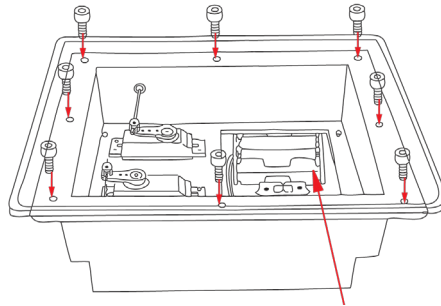
Cut off the shaded portion



STEP 7: RADIO BOX



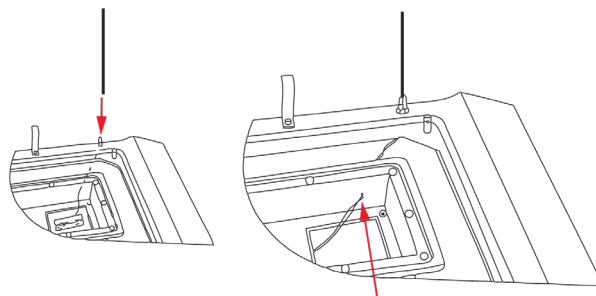
Cap Screw - 8 x 10 mm (8)



STEP 8: RADIO BOX



Antenna (1)



WORKING INSTRUCTION



Initial operation of the engine

The factory presets the basic adjustment of the engine. The mixed gasoline unleaded (Super or Super plus) lubrication should be 1:25, which means a share of 4% oil. We recommend special 2-cycle Racing Oil for an optimal lubrication.

- Use 92-98 octane (US 87-93) mixed in a 25:1 ratio with two cycle oil.
- Use only pre-mix two cycle oil to blend with gasoline.
- Do not use oil meant for use in engines with separate oil tanks, or oil that is for both separate oil tanks and pre mix use. Your engine will be damaged.

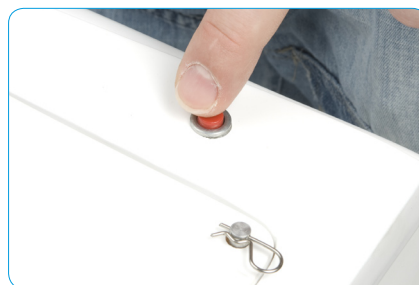
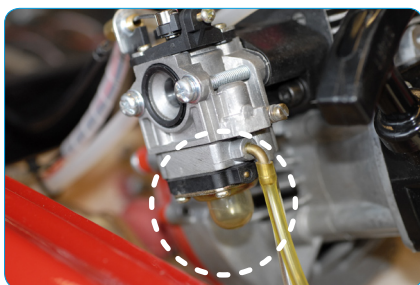
ENGINE

WARNING

This engine is designed for the radio controlled boat use. Navicraft® assumes that no responsibility for this engine that is modified or used for any other applications. Purchaser has all responsibility against any laws and regulations existing in the country, Navicraft® is exempt from such law and regulations.

Read these instruction before operating the engine.

STARTING THE ENGINE



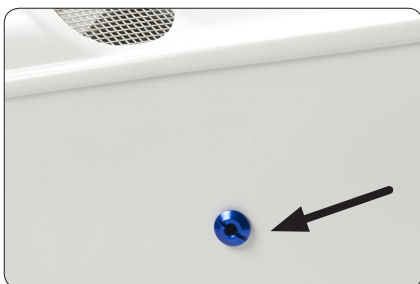
- Push the bulb several times until it is filled with fuel.
- Close the carburetor with a finger and pull the starter cord 2 to 5 times until the engine starts .
- Remove your finger and allow the engine to warm up for several minutes before running the boat.
- Push the ignition switch to stop the engine.

❗ IMPORTANT

- If the engine is flooded, the spark plug is certainly wet. In this case change spark plug or dry it and remove fuel rest in the cylinder by pulling starter before you replace the spark plug.

Caution:

Never operate the engine in closed rooms without sufficient ventilation!
Always check that the cooling is efficient. Water must leave when the boat sails



ENGINE TROUBLE SHOOTING

1. THE ENGINE DOES NOT START

Description	Cause	Countermeasure
Spark Plug	1. Wet spark plug electrodes	Make them dry
	2. Carbon deposited on the electrodes	Cleaning
	3. Insulation failure by insulator damage	Exchange
	4. Improper spark gap	Adjust to 0.6 - 0.7 mm
	5. Burn out of electrodes	Exchange
Magnet	1. Ignition coil inside failure	Exchange
	2. Damaged cable sheath or disconnected cable	Exchange or repair
Switch	1. Switch is OFF	ON the switch
	2. Switch failure	Exchange
	3. Primary wiring earthed	Repair
Fueling normal but poor compression	1. Worn out cylinder, piston, or piston ring	Exchange
	2. Gas leakage from cylinder and crank case gasket	Apply liquid gasket and reassemble
No fuel supply	1. Clogged carburetor	Cleaning

1. LACK OF POWER OR UNSTABLE RUNNING

Description	Cause	Countermeasure
Compression is normal and no misfire	1. Air penetration from fuel pipe joints, etc	Secure connection
	2. Air penetration from intake tube joint or carburetor joint	Change gasket or tightening screws
	3. Water in fuel	Change with good fuel
	4. Piston start to seizure	Replace piston (and cylinder)
	5. Muffler choked with carbon	Cleaning
Overheating	1. Clogging of cylinder fin with dust	Cleaning
	2. Poor fuel quality	Exchange with proper fuel
	3. Carbon deposited in the combustion chamber	Cleaning
	4. Spark plug electrode red hot	Thoroughly clean, adjust spark gap (0.6 - 0.7 mm or 0.023 - 0.028 in)

MAINTENANCE OF YOUR MODEL

After every use of the model, follow these steps to keep your boat in good condition.

- Before putting aside, draw out fuel from the tank.
- Next, restart the engine to combust remaining fuel. Leaving fuel inside the engine makes it more difficult for it to start next time.
- Wipe off water, dirt and oil (clean the hull as well)
- Grease all moving parts
- Oil the metal parts
- Disconnect the receiver batteries

SPARE PARTS



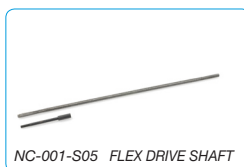
NC-001-S02 FUEL TANK



NC-001-S03 SPARK PLUG



NC-001-S04 THROTTLE WIRE



NC-001-S05 FLEX DRIVE SHAFT



NC-001-S07 RUDDER ASSEMBLY



NC-001-S08 FIXED BELT



NC-001-S09 PULL STARTER



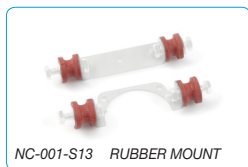
NC-001-S10 PROP PULP FORK



NC-001-S10A PROP FIXING NUT



NC-001-S11 PROPELLER



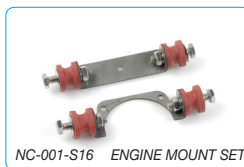
NC-001-S13 RUBBER MOUNT



NC-002-S14 FLAME-OUT SWITCH



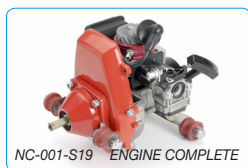
NC-001-S15 WATER COOLING RING



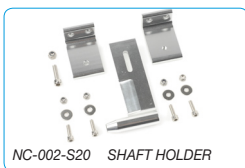
NC-001-S16 ENGINE MOUNT SET



NC-001-S17 ANTENNA HOLDER



NC-001-S19 ENGINE COMPLETE



NC-002-S20 SHAFT HOLDER



NC-001-S21 SILICON WATER TUBE



NC-001-S22 CANOPY BOLT LOCK



NC-002-S23 BOAT STAND



NC-001-S26 CARBURETOR



NC-001-S31 FLEX-ROD BOOTS



NC-002-S06 STAINLESS STEEL MUFFLER



NC-002-S12 SILICON PIPE



NC-002-S18 MANIFOLD (WATER COOLED)

ENJOY





www.navicraftboats.com

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